



Certificate Of Analysis

BUREAU VERITAS COMMODITIES AND
TRADE DE PANAMA, S.A
Colón Laboratory
Bahía Las Minas, Provincia de Colón
Colón, Republica de Panama
+507 444-1277
panama.lab@bureauveritas.com

Asset Type	Shore Tank	Submitted By	Bureau Veritas Commodities and Trade Panama
Asset Name	Tanques de Minera / Punta Rincón	Inspection Location	Punta Rincon
Operation Type	Inventory	Date Sampled	01-Aug-2024
Product	ULSDO	Date Received	01-Aug-2024
Client	Terpel Panama	Date Tested	02-Aug-2024
Client Reference	NA	Date Reported	02-Aug-2024

Tanques de Minera / Punta Rincón -Surtidor PRIT Running Inventory

PAPAN-24-00752-002

Specification
(RCTA 75.02.17:19)

Test	Method	Unit	Result	Min/Max
Density at 15°C	ASTM D4052-22	g/mL	0.8328	--
API Gravity @60°F	ASTM D4052-22	°API	38.3	--
Specific Gravity at 15/15°C	ASTM D4052-22	--	0.8336	--
Sulfur Content	ASTM D5453-16e1	mg/kg	5.9	15 max
Manual/Automated	ASTM D86-23	--	Manual	--
IBP	ASTM D86-23	°C	170.0	--
10% Evaporated	ASTM D86-23	°C	200.0	--
50% Evaporated	ASTM D86-23	°C	249.0	--
90% Evaporated	ASTM D86-23	°C	321.0	--
Endpoint	ASTM D86-23	°C	350.0	--
Recovery	ASTM D86-23	% (V/V)	98.0	--
Loss	ASTM D86-23	% (V/V)	0.9	--
Residue	ASTM D86-23	% (V/V)	1.1	--
Cetane Index	ASTM D976-21e1	--	48.7	45 min
Corrected Flash Point	ASTM D93A-20	°C	65.0	52.0 min
Water and Sediment	ASTM D2709-22	% (V/V)	< 0.01	0.05 max
Test Temperature	ASTM D6079-04-04	°C	60	--
Major Axis	ASTM D6079-04-04	mm	0.54	--
Minor Axis	ASTM D6079-04-04	mm	0.37	--
Wear Scar Diameter	ASTM D6079-04-04	µm	460	520 max

**** Test(s) not within the scope of LE No. 003 certificate issued by the Consejo Nacional de Acreditacion de Panamá, in accordance with the criteria of DGNTI-COPANIT-ISO / IEC 17025 as testing laboratories, in the facilities located in Bahías Las Minas (Colón) and Balboa (Panamá). For further information about accredited method, contact our laboratory.**

AUTHORIZED SIGNATURE

Barney Ramirez, Lab Technician

End of Report

The information contained in this test report relates only to the sample(s) tested. This report shall not be reproduced except in full, without the written approval from Bureau Veritas laboratory. The company expressly disclaims any liability arising from the use of documents and/or the results obtained by our services in general, in relation to certifications of quality, quantity, weight, temperature, concentrations, units and/or supervision or other certificates issued; And in any case, be liable to the user or third parties for any loss or damage, compliance or not related to administrative or other obligations arising from the exhibition of these.